May 2023
901050-001
Rev 03

TouchTunes

FRU Installation Guide
Replacing Angelina's Monitor

Purpose

This document explains how to install the Monitor Field Replacement Unit (FRU) kit (P/N 600270-xxx) for an Angelina jukebox.

Audience

- TouchTunes Angelina jukebox operators
- TouchTunes Field Service and Customer Support
- TouchTunes Sales personnel

Estimated Time

15 minutes

Required Personnel

1 technician

This document includes tasks of the following type:

☐	Software
☑	Hardware
☐	Mechanical
☐	Packaging

Topics

- Required Tools and Equipment
- Important Safety Information
- Included in This Kit
- Installing the Monitor
- Contacting Technical Support

Required Tools and Equipment

- Torque-limiting nut driver and metric (7 mm) socket. Do not use a standard ratchet, which can lead to over-torquing. A regular nut driver (with 7 mm socket) can be used, as long as you are careful to avoid over-torquing when tightening the nuts.
- Cutting tool (to cut cable ties)
- Anti-static wrist band
- Cable ties for cable dressing

NOTE	For warranty returns, place the defective unit into the packaging/container from which you remove the replacement unit. Do not open the defective unit. Doing so voids its warranty.

Important Safety Information

WARNING: When performing this procedure or any other maintenance on your jukebox, the unit must be powered off and its electrical power disconnected.

IMPORTANT: A properly-grounded anti-static wrist band should be worn at all times during the procedure presented in this document.

Included in This Kit

Ensure that you have received all the required parts before proceeding with this installation.

Part	Quantity	TouchTunes Part #
MON, TOUCHSCREEN, 24"	1	301020-xxx
FAS, BOLT, WING, M4, 8MM	2	200270-008
FAS, KNUT, M4, ZN	3	200087-001
MAN, FRU, MONITOR (this document)	1	901050-001

Installing the Monitor

To install the replacement monitor:

1. Press the **MNGR** button on the I/O Board to open the Operator interface main menu.
2. On the Angelina screen, press the **REBOOT** button.
3. When you hear the BIOS beep, power down Angelina by setting the rocker switch on the Power Supply Unit (PSU) to the OFF (**O**) position.

WARNING: Never shut down or unplug Angelina without first performing a reboot and waiting for the BIOS beep. Doing so can cause damage to the hard drive and make it unusable.

4. Unplug the AC power cable from the wall socket.

5. Connectors are located on the monitor's bottom panel, as shown in the following figure. Disconnect all connectors from the bottom panel.

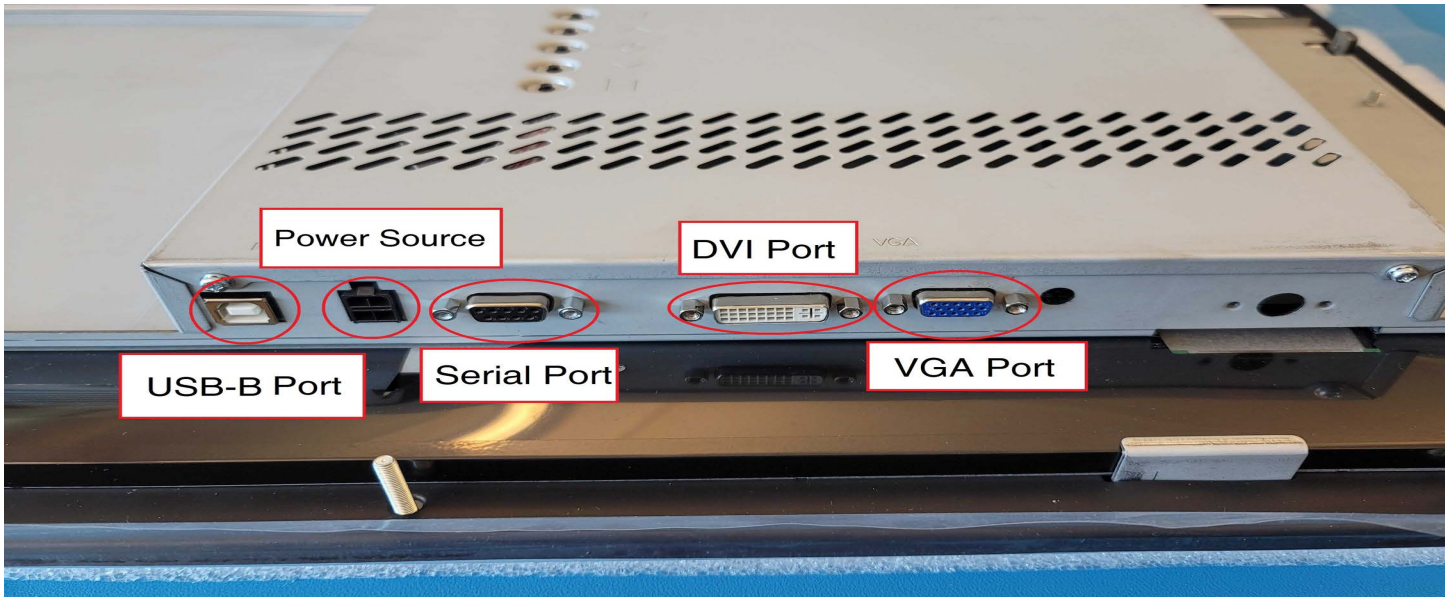


Figure 1: Touch screen monitor - bottom panel (Note the USB-B Port is for PCAP monitor only (301020-003)

6. Unscrew the 2 captive PEM nuts from the top part of the monitor.

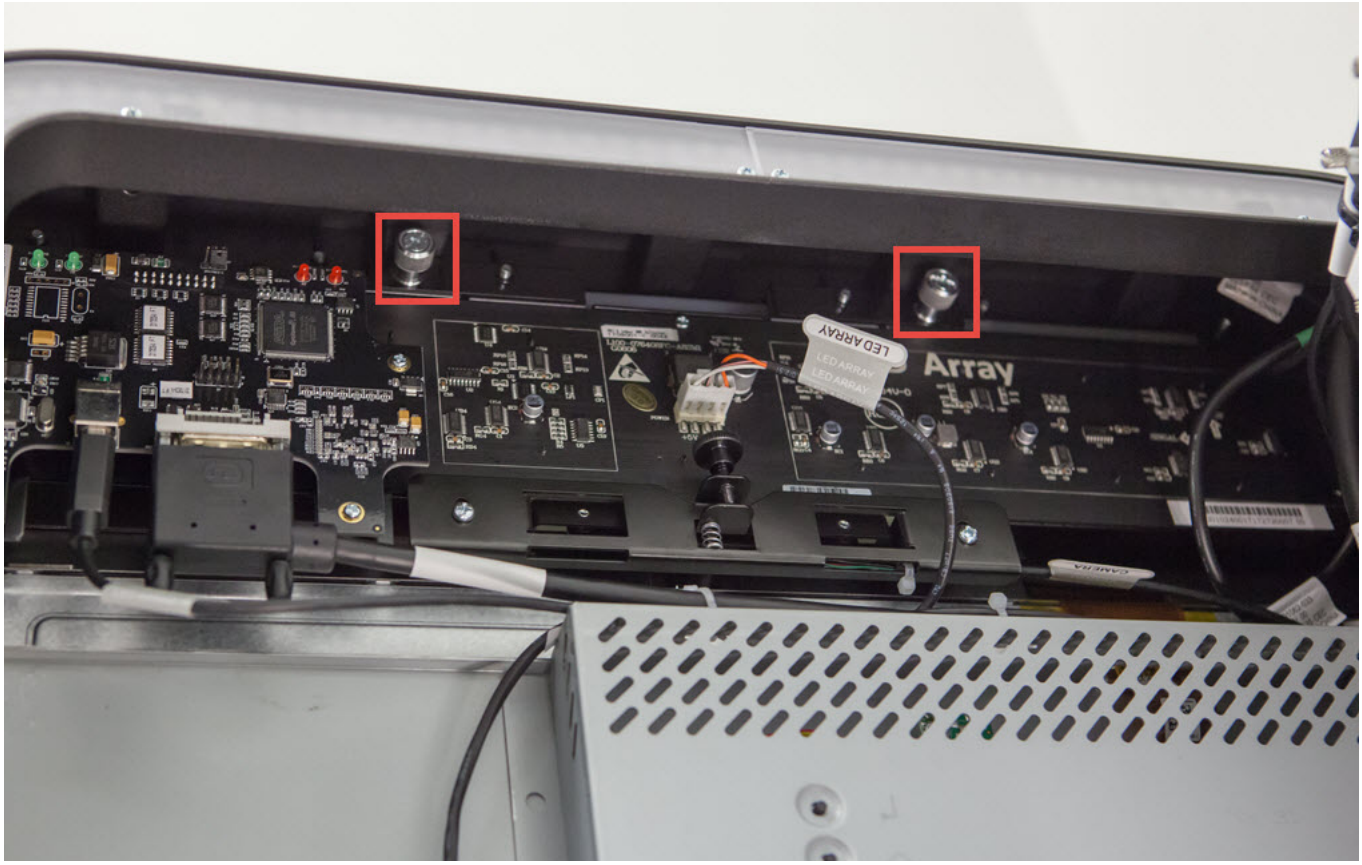


Figure 2: Location of top captive PEM nuts

7. Snip the cable ties holding the cables together on top of the monitor.

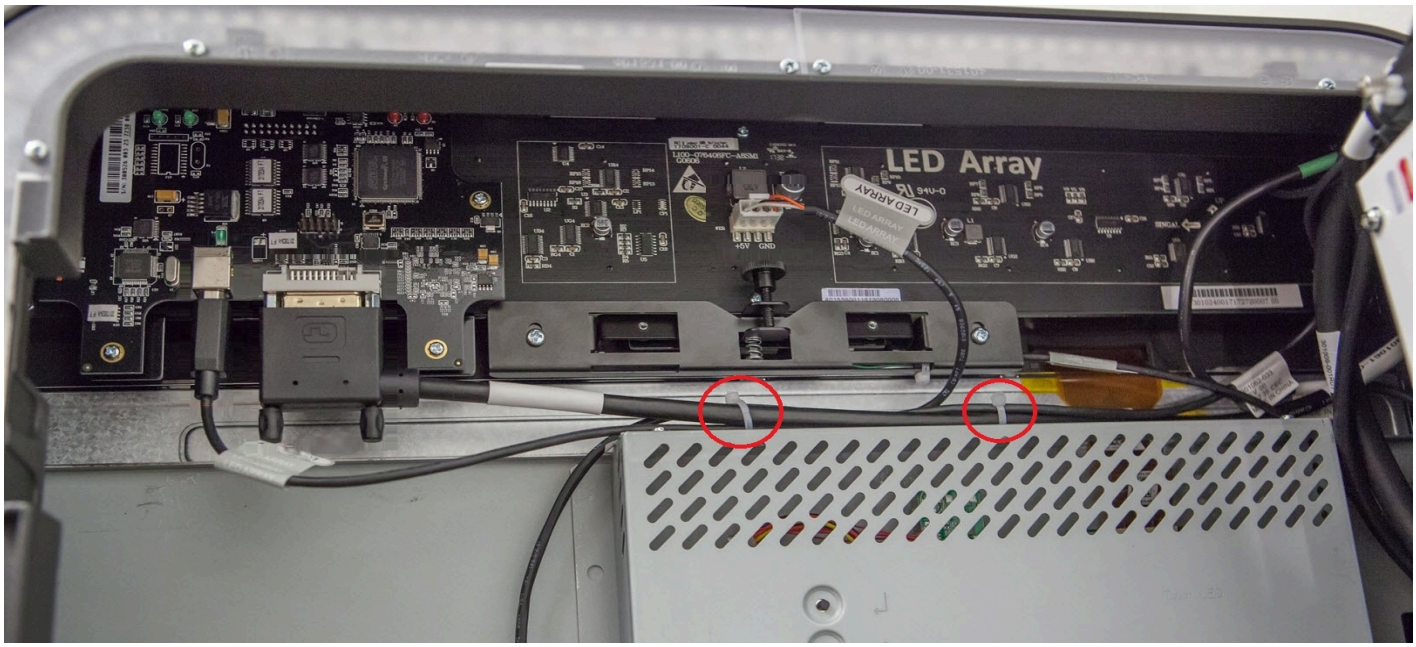


Figure 3: Visualizer cable connections

8. Remove the 3 nuts from the bottom part of the monitor and set them aside. The bottom center nut is shown in the following figure. The location of the left and right screws are circled in red.

Figure 4: Removing bottom center nuts

9. Remove the wing nut from the right side of the monitor and set it aside.

Figure 5: Location of right-side wing nut

10. While supporting the monitor from the exterior, remove the wing nut from the left side of the monitor and set it aside.

Figure 6: Removing the left-side wing nut

11. With one hand positioned on the rear of the monitor and the other supporting its front on the exterior, gently push the unit forward, lift it away from the jukebox, and then carefully lay it face down on a clean, flat surface. TouchTunes recommends laying something soft and uniform on the work surface, first, in order to keep the front of Angelina from getting scratched.

Figure 7: Removing the monitor

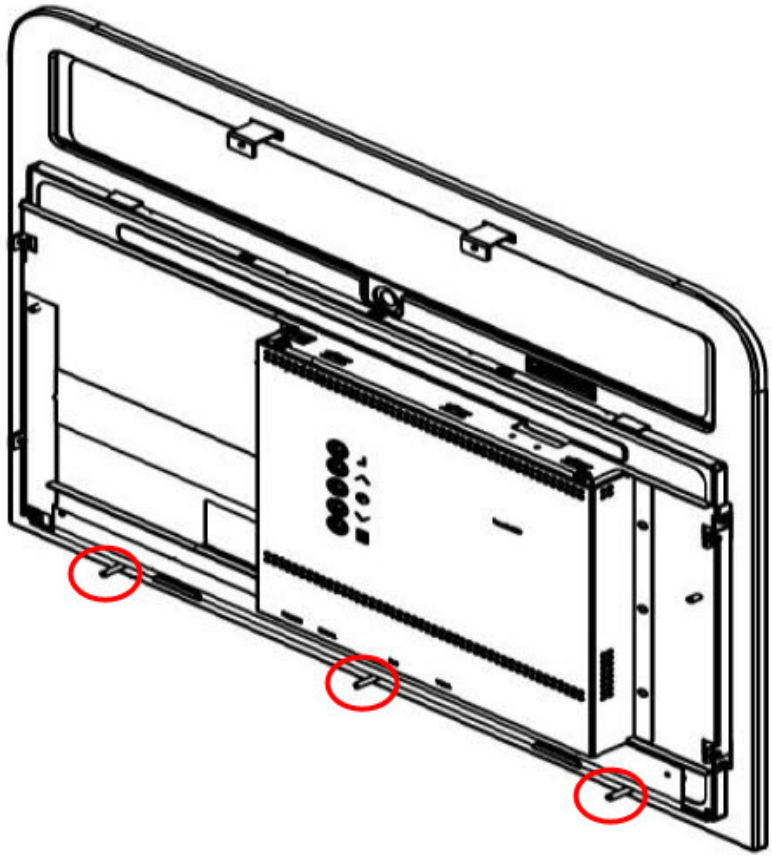


Figure 8: Location of studs on replacement monitor

12. Angle the new monitor into position such that its 3 lower studs are seated in their tabs on Angelina's door. Doing so will provide support for the monitor while you maneuver it into its final position.
13. Press firmly on the face of the monitor until it is properly seated and makes flush contact with the door.

CAUTION: DO NOT OVERTIGHTEN the nuts. Doing so may cause damage to the touchscreen. TouchTunes is NOT responsible for equipment damage caused by improper installation.

14. Fasten the 2 wing nuts (finger-tight) located on the left and right sides of the monitor. Start with the left wing nut first while supporting the monitor from the front of the jukebox exterior. See Figure 6: Removing the left-side wing nut for how to position yourself.

15. While pressing firmly on the top of the monitor from the exterior, replace the 2 captive PEM nuts at the top of the monitor on the interior.

Figure 9: Replacing top nuts

16. Replace the 3 nuts located at the bottom of the monitor with a screw driver.
17. Reconnect the connections to the bottom panel on the monitor.
18. Replace the cable ties removed in step 7 of this procedure.
19. Plug the AC power cord back in.
20. Power on Angelina.

21. Test the functionality of the monitor using the 5 buttons located on its back panel.

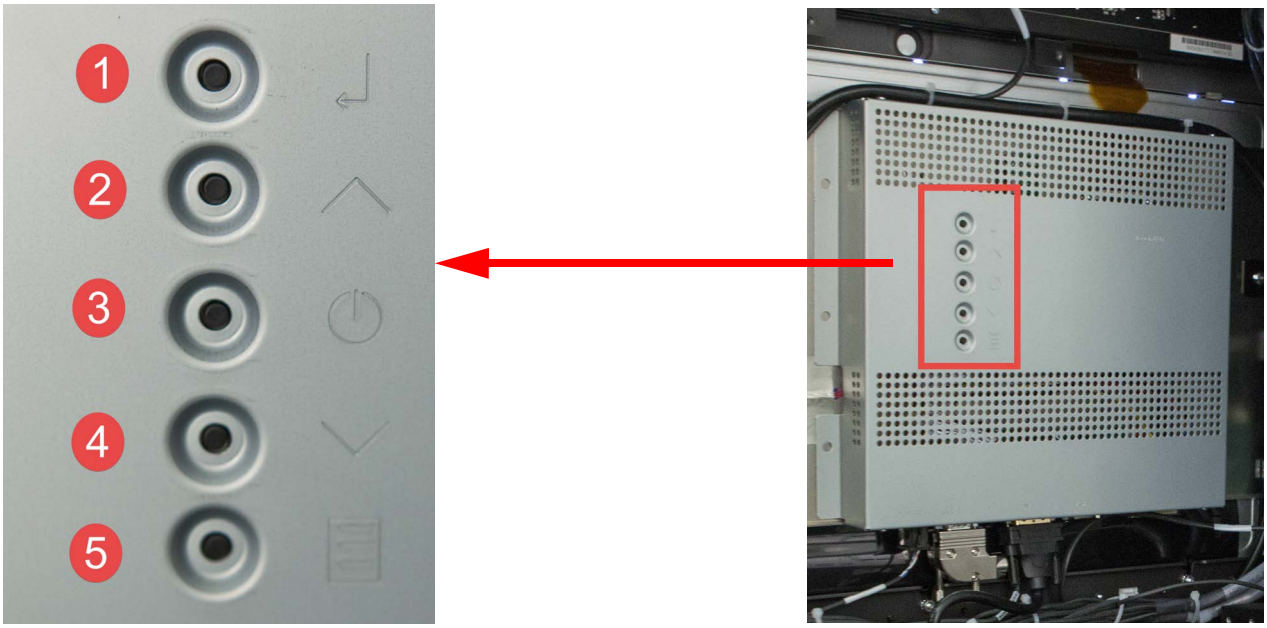


Figure 10: On Screen Display (OSD) buttons

Button	Control	Function
1	ENTER	Select the current choice in the OSD.
2	UP	Increases brightness. While viewing OSD: - Selects OSD choice counterclockwise. - Increases the value of OSD adjustment choice.
3	POWER	Turns the monitor ON/OFF.
4	DOWN	Decreases brightness. While viewing OSD: - Selects OSD choice clockwise. - Decreases the value of OSD adjustment choice.
5	MENU	Displays/exits the OSD menus.

22. When replacing the touch screen a calibration is required. If not calibrated, it may appear that the monitor has no touch.
23. To start the calibration press and hold the manager button on th I/O board for more than 5 sec.

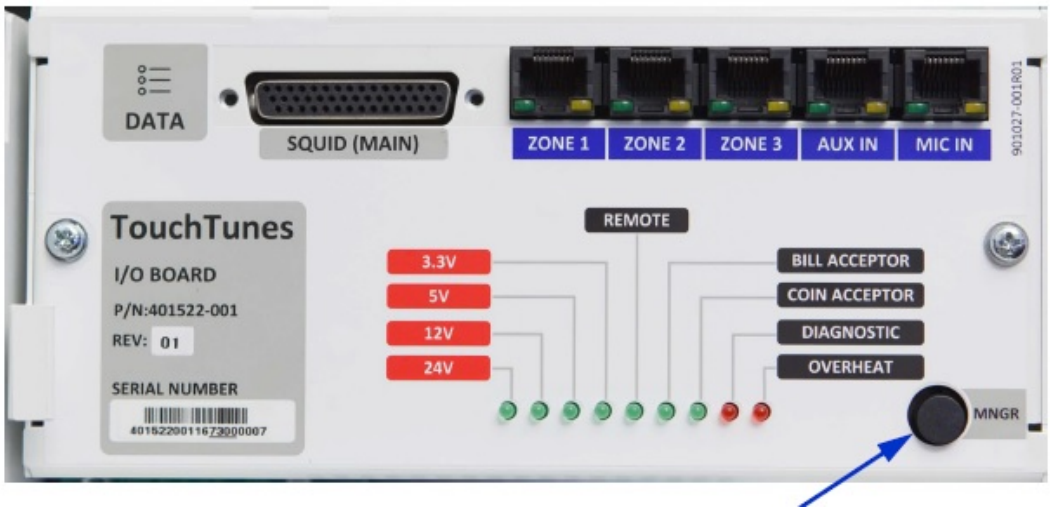
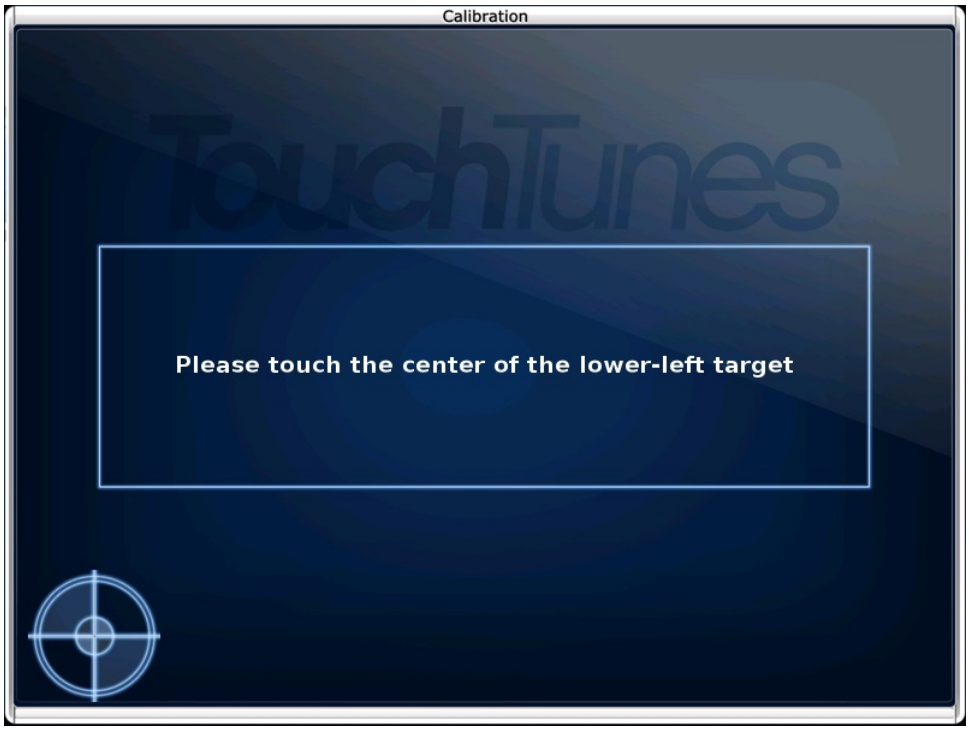


Figure 11: Manager Button

24. Once the software initialization has completed, follow the on screen steps for the calibration.



You have now completed the replacement of the monitor.

Figure 12: Touch screen monitor 301020-001 and 301020-002 touch indicator LED

Note: The above image shows the LED touch indicator seen on other versions of Angelina monitors. PCAP monitor 301020-003 does not have this feature.

Contacting Technical Support

If you need help or have questions about this guide, call the TouchTunes 24/7 Service Hotline at 888-338-5853.

To help us assist you more effectively with problem reports, the following information may be required when contacting TouchTunes support:

- Jukebox model and ID
- Operator ID
- Serial number of the component you believe to be defective
- Date/time of the problem
- Actions performed immediately before the problem occurred
- Any additional comments relevant to the problem

7250 Mile End, Suite 202
Montreal, Quebec,
Canada, H2R 3A4

850 Third Ave, 15th Floor
New York, NY 10022
USA

Technical Support
888-338-5853
www.touchtunes.com

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